## **AMENDMENTS TO THE CLAIMS**

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. Method for the production of an isotropic polymeric network comprising multifunctional molecules with a functionality of at least 5 by reacting in a solvent the multifunctional molecules with a coupling agent, wherein the coupling agent is present in an amount which is sufficient to couple the multifunctional molecules to at least 5 other multifunctional molecules and wherein the sum,  $\rho$ , of the amounts of the multifunctional molecules and coupling agent per unit of volume, in kg/m³, is at least equal to the value as given by expression (I)

$$\frac{a(m_1 + \frac{n}{2}m_2)}{10^{26}(d+L)^3} \tag{I}$$

in which

a = 0.2

d = the diameter of the multifunctional molecule, including the length of the bonds to the middle of atoms of the coupling agent to which it is attached

L the length of the coupling agent, measured between the middle of the atoms that are connected to the multifunctional molecule

 $m_1$  = the molecular mass of the multifunctional molecule as present in the isotropic polymeric network

 $m_2$  = the molecular mass of the coupling agent as present in the isotropic polymeric network

n =the functionality of the multifunctional molecule ( $n \ge 5$ )

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- 2. (original) Method for the production of a isotropic polymeric network according to claim 1, wherein  $\rho$  is at least equal to the value as given by expression (I), wherein a=0.4.
- 3. (currently amended) Method for the production of an isotropic polymeric network according to any one of claims 1-2 claim 1, wherein the coupling agent comprises a rod like molecule.
- 4. (original) Isotropic polymeric network with a density lower than 1000 kg/m<sup>3</sup> and a specific Young's modulus of at least 0.01 GPa.m<sup>3</sup>/kg.
- 5. (original) Isotropic polymeric network according to claim 4, wherein the network is substantially free of cavities comprising a gas.
- 6. (currently amended) Shaped article comprising the isotropic polymeric network according to any one of claims 4-5 claim 4.
- 7. (currently amended) Use of the isotropic polymeric network of any one of claims 4-5 claim 4 as a construction material.